



U.S. Department  
of Transportation  
**Research and  
Special Programs  
Administration**

400 Seventh St., S.W.  
Washington, D.C. 20590

**JUL 12 2001**

DOT-E 12178  
(FOURTH REVISION)

**EXPIRATION DATE: October 31, 2002**

(FOR RENEWAL, SEE 49 CFR § 107.109)

1. GRANTEE: OraSure Technologies, Inc.  
Bethlehem, Pennsylvania  
(Former Grantee: STC Technologies)
2. PURPOSE AND LIMITATION: This exemption authorizes the transportation in commerce of certain Division 2.1 gases in a DOT 2Q container. This exemption provides no relief from any regulation other than as specifically stated herein.
3. REGULATORY SYSTEM AFFECTED: 49 CFR Parts 106, 107 and 171-180.
4. REGULATIONS FROM WHICH EXEMPTED: 49 CFR § 171.11(d)(14) and § 171.12(b)(17) in that the container does not meet the definition of "aerosol"; § 173.304(a)(1), and § 175.3 in that the DOT 2Q container is not authorized, except as specified herein.
5. BASIS: This exemption is based on the application of STC Technologies dated January 17, 2000, May 9, 2000, July 30, 2000, and additional information dated October 3, 2000 submitted in accordance with § 107.109.

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6. HAZARDOUS MATERIALS (49 CFR § 172.101):

Proper shipping name -- Hazardous materials description	Hazard Class/ Division	Identi- fication Number	Packing Group
* Aerosols, flammable (each not exceeding 1 L capacity)	2.1	UN1950	N/A
Liquefied gas, flammable n.o.s.	2.1	UN3161	N/A

\* For importation into the United States and export to Canada, Central and South America only in accordance with paragraphs 8(c) and (d). Not for domestic distribution.

7. PACKAGING AND SAFETY CONTROL MEASURES:

a. PACKAGING - Packaging prescribed is a DOT Specification 2Q container not exceeding 210 ml (12.82 cubic inch) capacity. The container is not equipped with a pressure relief device. Each container must conform with drawings on file with the Office of Exemptions and Approvals (OHMEA). Each container must be tested as follows: one container out of each lot of 10,000 containers or less, successively produced each day, shall have been pressure tested to determine the burst pressure. The minimum burst pressure must be no less than 23.2 bar (336 psig).

b. OPERATIONAL CONTROLS - Containers must be shipped as follows:

(1) The liquid portion of the gas may not exceed 95% of the container capacity at 130°F.

(2) Each completed container filled for shipment must have been heated until the pressure in the container is equivalent to the equilibrium pressure of the contents at 130°F without evidence of leakage, distortion, or other defect.

(3) The pressure in the container may not exceed 82 psig at 70°F and 177 psig at 130°F.

(4) Each container must be packed in strong outside packagings as prescribed in § 173.301(k).

(5) Each package may not exceed 66 pounds gross weight.

(6) MARKING - Each outside packaging must be marked "INSIDE CONTAINERS CONFORM WITH DOT-E 12178".

8. SPECIAL PROVISIONS:

a. A person who is not a holder of this exemption who receives a package covered by this exemption may reoffer it for transportation provided no modifications or changes are made to the package and it is reoffered for transportation in conformance with this exemption and the HMR.

b. A current copy of this exemption must be maintained at each facility where the package is offered or reoffered for transportation.

c. Containers may be imported into the United States and transported to OraSure's facility in Bethlehem, Pennsylvania under the international description of "Aerosols, UN1950". The containers must then be relabeled for domestic shipment under the description "Liquefied gas, flammable n.o.s., UN3161".

d. Small quantities, not to exceed 120 containers per shipment, may be exported to Canada, Central and South America for the development of new markets. Containers must be shipped from OraSure's facility in Bethlehem, Pennsylvania under the international description of "Aersols, UN1950" to the regions named via motor vehicles, cargo vessel and rail freight only. Exportation by air transportation is forbidden.

e. The following information must be submitted to the OHMEA:

(1) Before first shipment of containers with the minimum burst pressure of 336 psig, burst test results and lading temperature and pressure test data from testing described in paragraph 7.b.(2) of this exemption must be submitted.

(2) Burst test results for the first 20 lots tested under this exemption.

(3) Lading temperature and pressure test data for the first 20 lots from testing described in paragraph 7.b.(2) of this exemption.

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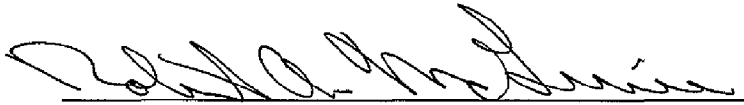
9. MODES OF TRANSPORTATION AUTHORIZED: Motor vehicle, rail freight, cargo vessel, and cargo aircraft only (see paragraph 8(d) for additional restriction).
10. MODAL REQUIREMENTS: A copy of this exemption must be carried aboard each cargo vessel or aircraft used to transport packages covered by this exemption. The shipper shall furnish a copy of this exemption to the air carrier before or at the time the shipment is tendered.
11. COMPLIANCE: Failure by a person to comply with any of the following may result in suspension or revocation of this exemption and penalties prescribed by the Federal hazardous materials transportation law, 49 U.S.C. 5101 et seq:
- o All terms and conditions prescribed in this exemption and the Hazardous Materials Regulations, 49 CFR Parts 171-180.
  - o Registration required by § 107.601 et seq., when applicable.

Each "Hazmat employee", as defined in § 171.8, who performs a function subject to this exemption must receive training on the requirements and conditions of this exemption in addition to the training required by §§ 172.700 through 172.704.

No person may use or apply this exemption, including display of its number, when the exemption has expired or is otherwise no longer in effect.

12. REPORTING REQUIREMENTS: The carrier is required to report any incident involving loss of packaging contents or packaging failure to the Associate Administrator for Hazardous Materials Safety (AAHMS) as soon as practicable. (Sections 171.15 and 171.16 apply to any activity undertaken under the authority of this exemption.) In addition, the holder(s) of this exemption must inform the AAHMS, in writing, of any incident involving the package and shipments made under the terms of this exemption.

Issued at Washington, D.C.:



Robert A. McGuire  
Associate Administrator  
for Hazardous Materials Safety

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(Date)

Address all inquiries to: Associate Administrator for Hazardous  
Materials Safety, Research and Special Programs Administration,  
Department of Transportation, Washington, D.C. 20590.  
Attention: DHM-31.

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PO: CWF/KFW